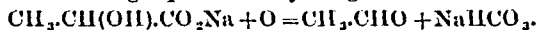


presence of a catalyst, such as ferrous, ferric, uranyl, or manganous sulphate, or sodium anthraquinone-2,7-disulphonate, or 9,10-dichloroanthracene-2,7-disulphonate, an increase in the alkalinity of the solution was observed. As an example of the method of formation of the alkali, the following equation may be given :



## Trade Report.

### *Contraband of war.*

A ROYAL Proclamation, dated May 27th, 1915, declares that "Toluol, and mixtures of toluol, whether derived from coal-tar, petroleum, or any other source, will be treated as absolute contraband." Also that in the Proclamation of Dec. 23rd (see this J., 1914, 1230), the words "all other metallic acetates" (after "calcium acetate") shall be omitted, and that linseed oil will be treated as conditional contraband.

### *Prohibited exports.*

By an Order in Council dated June 2nd, 1915, the exportation of the following goods is prohibited to all destinations abroad other than British Possessions and Protectorates:—Hydrochloric acid, oxides and salts of nickel, oxides and salts of tungsten; mineral and vegetable wax, ground nuts, earth nuts, or pea nuts (Arachides), hemp-seed, palm nuts and palm kernels, poppy seed, rape or colza seed, sunflower seed; tungsten filaments for electric lamps. Among the articles added to the list of goods the exportation of which is prohibited to all foreign ports in Europe and on the Mediterranean and Black Seas, other than those of France, Russia (except Baltic ports), Spain, and Portugal, are arsenic and its compounds, ground nut or earth nut cake and meal, hempseed cake and meal, husk meal, locust bean meal, meat meal, palmit cake and meal, poppyseed cake and meal, rapeseed or colza seed cake and meal, sesame seed cake and meal, soya bean cake and meal, sunflower seed cake and meal.

### *Prohibited exports.*

AUSTRIA-HUNGARY.—According to a decree of May 8th the following articles have been added to the list of prohibited exports: Ammonia, chloral hydrate, dionine, digalen, menthol, perhydrol, pepperment oil, pilocarpine, iperacuanha, liquorice-root, rhubarb, valerian-root, salicylic acid and its salts, tannalbin, theobromine and its derivatives, and hexamethylenetetramine.

GERMANY.—According to a decree of the Imperial Chancellor, dated May 20th, the exportation of wood-vinegar (crude acetic acid), oil-varnishes, spirit-varnishes, and shellac-preparations is prohibited. The prohibition of the exportation of natural magnesium carbonate (magnesite) has been revoked.

## Books Received.

THE CHEMISTS' YEAR BOOK, 1915. Edited by F. W. ATACK, M.Sc.Tech. In two vols. Sherratt and Hughes, 34, Cross Street, Manchester. 911 pages. 6½×4 in. Price 10s. 6d.

ADVANTAGE has been taken of the cessation of the supply of the German pocket-books and annuals, to produce a similar work in the English language, which it is intended to revise each year. The Editor is to be congratulated on the results of his labours, which should form a most useful addition

to the chemists' library. The first volume contains a calendar for the year and a large number of analytical notes, conversion tables, logarithms, and mathematical constants. The second volume includes tables of physical constants of elements, their compounds, and various solutions, together with notes on mineralogy and a large range of chemical-technological subjects.

THE LEATHER TRADES' YEAR BOOK, 1915. Edited by M. C. LAMB and J. GORDON PARKER. The Anglo-American Technical Co., 112, Tower Bridge Road, London, S.E. 212 pages. 9×6 in.

THIS Year-Book is the official organ of the United Tanners' Federations of Great Britain and Ireland. The first part of the book is devoted to information concerning the various Federations, and to statistical and other matters of interest to the tanner and leather chemist. The remainder of the book is occupied by an interesting series of papers on a variety of subjects pertaining to the industry; these include contributions by such authorities as H. R. Procter, E. Nihoul, J. T. Wood, and M. C. Lamb.

POTASH SALTS AND OTHER SALINES IN THE GREAT BASIN REGION. By G. J. YOUNG. U.S. Dept. of Agriculture, Bulletin No. 61. Government Printing Office, Washington. 92 pages. 9¼×6 in. Price 15 c.

THIS Bulletin embodies the results of investigations carried out in co-operation with the U.S. Geological Survey and the Mackay School of Mines, Reno, Nev., to determine the sources of potash in the basin region. The area under consideration covers practically the whole of Nevada, the southern part of Oregon, the western part of Utah, and certain parts of eastern and south-eastern California. The chief result of the investigations is to show that, of the basins examined, Searles Lake is the only one where the concentration of potassium in the residual brines is sufficient to offer prospects of commercial success.

## \* New Books.

[The Roman numerals in thick type refer to the similar classification of abstracts under "Journal and Patent Literature" and in the "List of Patent Applications."]

VII. Diggs, S. H.: Influence of the concentration of potassium iodide on the rate of diffusion of iodine in potassium iodide solution. Charlottesville, Va., Univ. of Va. 1914. 477—512 p. tabs. Q. 1915. Pap. 50 c.

X. Buckert, A. O.: Ed. The A B C of iron and steel; with a directory of the iron and steel works and their products of the United States and Canada. Cleveland, O., Penton Pub. c. 15+338 p. 11. pors. plans fold. pls. tabs. diagrs. 14°. 1915. \$5.

Doeller, C.: Handbuch d. Mineralchemie. III. Bd. 6. u. 7. Abtlg. Dresd., Steinkopff. 1915. Each Abtlg. M. 6.50.

Lyon, D. A., and Keeney, R. M.: The smelting of copper ores in the electric furnace. Wash. D.C. Gov. Pr. Off. 80 pp. 11. 8vo. (Bu. of Mines. Bull. 81). 1915.

McFarren, H. W.: Practical stamp-milling and amalgamation. 3rd ed. with a chapter on arrangement and construction costs of stamp-mills. By C. T. Hutchinson. San Francisco. Mining and Scientific Press. C. 1914. 231 pp. 11. 8vo. \$2.

Vulcan Process Co.: A text book on welding and cutting metals by the oxy-acetylene process; with 64 illustrations. 3rd ed., rev. Minneapolis. c. 7+134 p. 8vo. 1915. \$1.50.

- White, C. H.: Methods in metallurgical analysis. 106 illustrations. N.Y., Van Nostrand. c. 9+350 p. (31 p. bibl.) D. 1915. \$2.40 n.
- XII.** Ingle, H.: Manual of oils, resins, and paints, for students and practical men. In three vols., each volume complete in itself and sold separately. Vol. I. Analysis and valuation. With diagrams by the Author and J. A. L. Sutcliffe. Cr. Svo. Griffin and Co. London. 1915. Net 3s. 6d.
- XIII.** Underwood, N., and Sullivan, T. V.: Chemistry and technology of printing inks. N.Y., Van Nostrand. c. 139 p. il. O. 1915. \$3 n.
- XIV.** Lock, R. H.: Rubber and rubber planting. (N.Y., Putnam). 1914. 11+245 p. il. pls. 12mo. 1915. \$1.50 n.
- XV.** Stickerberger, B.: Versuch e. Geschichte der Gerberei. (95 S. m. z. Tl. eingeklebten Abbildgn.) Svo. Berlin. Springer. 1915. M. 8.
- XVII.** Pages, G.: Le sucre et l'utilisation de ses sous-produits à la ferme, fig. (VIII.—88 p.) in-16. cart. Hachette. Paris. 1915. Fr. 1.50.
- XVIII.** Brauereien, Malz-Fabriken, Brennereien, Spirit- u. Presshefen-Fabriken; Die deutschen, im Besitze v. Aktien-Gesellschaften. Jahres-Bericht der finanziellen Verhältnisse u. Betriebs-Ergebnisse im Geschäftsj. 1913-14. (Einhd.: 1915) 18. vollständig umgearb. u. verm. Aufl. (X. 396 S.) gr. 8°. Berlin. Verlag f. Börsen- u. Finanzliteratur. 1915. Geb. in Leinw. M. 6.
- Kremer, E.: Agricultural alcohol: studies of its manufacture in Germany. Wash. D.C., Gov. Pr. Off. 36 p. tab. Svo. (Dept. of Agric. Bull. No. 182). 1915.
- XIXA.** Hart, R. N.: Leavening agents; yeast, leaven, salt-rising fermentation, baking powder, aerated bread, milk powder. Easton, Pa., Chemical Pub. c. 90 p. il. Svo. 1915. \$1.
- Daire: Les microbes dans l'industrie laitière. 20 fig. (121 p.) in-18. Baillière. Paris. 1915. Fr. 1.50.
- Merrill, E.: Production and consumption of dairy products. (Wash. D.C. Gov. Pr. Off.) 19 p. tabs. Svo. (Dept. of Agric. Bull. No. 177). 1915.
- Teixeira, G.: Trattato di chimica applicata alla bromatologia e alla igiene. 4a ediz. Terni. 16°. p. 1109. XXIV. 1915. Lire 12.
- XIXB.** Ellert, W. B., and Grissom, J. T.: Preparation of nicotine extracts on the farm. Blacksburg, Va. (Agricultural Experiment Station). 1914. 16 p. il. Svo. 1915. (Bulletin).
- Leffmann, H.: Examination of water for sanitary and technical purposes. 7th ed. rev. and enl. Phil., Blakiston. c. 16+140 p. il. 12mo. 1915. \$1.25 n.
- Matthews, E. R.: Refuse disposal. A practical manual for municipal engineers, members of local authorities, etc. With 8 detailed drawings, and 91 illustrations in the text. Cr. Svo. Charles Griffin and Co. London. 1915. Net 6s.
- XX.** Askinson, G. W.: Perfumes and cosmetics: their preparation and manufacture. Tr. from the German. Rev. with additions by W. S. Dudley and a corps of experts. Il. by 32 engravings. 4th ed. N.Y., Henley. c. 1892—1915. 10+344 p. O. 1915. \$5.
- XXIII.** Peters, F.: Handb. d. analyt. Chemie. 3. Lfg. Hdbg., Carl Winter. 1915. M. 2.
- XXIV.** Bauer, Dr. H.: Geschichte der Chemie. H. Von Lavoisier bis zur Gegenwart. 2., verb. Aufl. (140 S.) 1915. 8°. Berlin. G. J. Göschen. M. 1.
- Blücher, H.: Auskunftsbuch f. die chemische Industrie. 9. verb. u. stark verm. Aufl. (XVI. 1450 u. 13 S.) gr. 8°. Leipzig. Veit & Co. 1915. Cloth. M. 18.
- Chamol, E. M.: Elementary chemical microscopy. N.Y., Wiley. c. 6+410 p. figs. 8°. 1915. \$3 n.
- Firth, J. B.: Practical physical chemistry. Cr. Svo. pp. 190. Methuen. 1915. 2s. 6d.
- Gmelin u. Kraut's anorgan. Chemie. 7. Aufl. v. Friedheim u. Peters. 182—184. Lfg. Hdbg., Carl Winter. 1915. Each Lfg. M. 1.80.
- Industrial Chemistry: A manual for the student and manufacturer. Edited by A. Rogers. 2nd ed., thoroughly revised and enlarged. Roy. Svo. pp. 1026. Constable, London. 1915. Net 24s.
- Perkin, F. M., and Juggers, E. M.: Text-book of elementary chemistry. Cr. Svo. pp. 344. Constable, London. 1915. Net 3s.

### \* Dissertations.

Siebert, G.: Ueber o-Aminobenzolmercaptan und o-Phenolmercaptan. Marburg i. H. 1914. 77 S. 8°.

Smith, S.: Ueber 1-methyl-2-amino-4-äthanoyl-cyclohexan. Ueber die Ozonide des  $\Delta^3$ -p. Menthens. Kiel. 1914. 36 S. 8°.

**XXIII.** Berneis, B.: Bestimmungen der spezifischen Wärme unvollkommener Gase nach der Durchströmungsmethode. Heidelberg. 1914. 83 S. m. 1 Tafel.

**XXIV.** Kröber, E.: Zum Molekularzustand von Flüssigkeiten und Lösungen. Leipzig. 1914. 82 S. 8°.

Nordenson, H.: Ueber die Bedeutung des Lichtes für die Bildung und Stabilität kolloider Lösungen. Upsala. 1914. III, 161 S. m. 11 (10 Kurven) Taf. gr. 8°.

Hallstein, A.: Beiträge zur Kenntnis des  $\alpha$ -Terpineols,  $\beta$ -Terpineols und des  $\Delta^1$ -Menthens. Göttingen 1913. VI, 53 S. 8°.

Herz, A.: Ueber komplexe Eisenverbindungen der Benzoesäure und der Salicylsäure. Tübingen 1914. 92 S. 8°.

Immerdörfer, E.: Synthese einiger alkylsubstituierter Hippurymalonester und ihre Kondensation zu Pyrrolonderivaten. Berlin 1914. 38 S. 8°.

Irschick, A.: Ueber die Hydrierung von Chinalkaloiden und Chinaketonen. Jena 1913. 38 S. 8°.

Jahn, F.: Ueber Jodosbenzoesäure. Leipzig 1914. 28 S. 8°.

Memminger, K.: Ueber das Einwirken von Brom auf Azo-Acetessigester, Azo-Isoxazolone und Azo-Pyrazolone. Tübingen 1914. 71 S. 8°.

Oettingen, W. F. v.: Die Hydrierung des Santonins zu stereoisomeren Santonanen und andere Reduktionsversuche in der Santoninreihe. Göttingen 1913. 74 S. 8°.

Perei, E.: Camarine aus Propionyllessigester. Berlin T. II. 1914. 32 S. 8°.

Rauch, H.: Ueber neue Oxydations- und Spaltprodukte des Brucins. Berlin 1914. 41 S. 8°.

Schäfer, A.: Ueber einige Derivate des 1-Phenyl-3-methyl-5-iminopyrazolons. Rostock 1913. 60 S. 8°.

Schmidt, J.: Ueber einige Derivate des Methylisoeugenoldibromides. München Techn. Hochsch. 1913. 46 S. 8°.

Schwarz, K. R.: Beiträge zur Kenntnis der Oxydationsvorgänge. Ueber das Dicyklopentadien. München 1913. 59 S. 8°.

\* Compiled by H. Grevel and Co., 33, King Street, Covent Garden, London, W.C., from whom all the works in the preceding lists can be obtained.